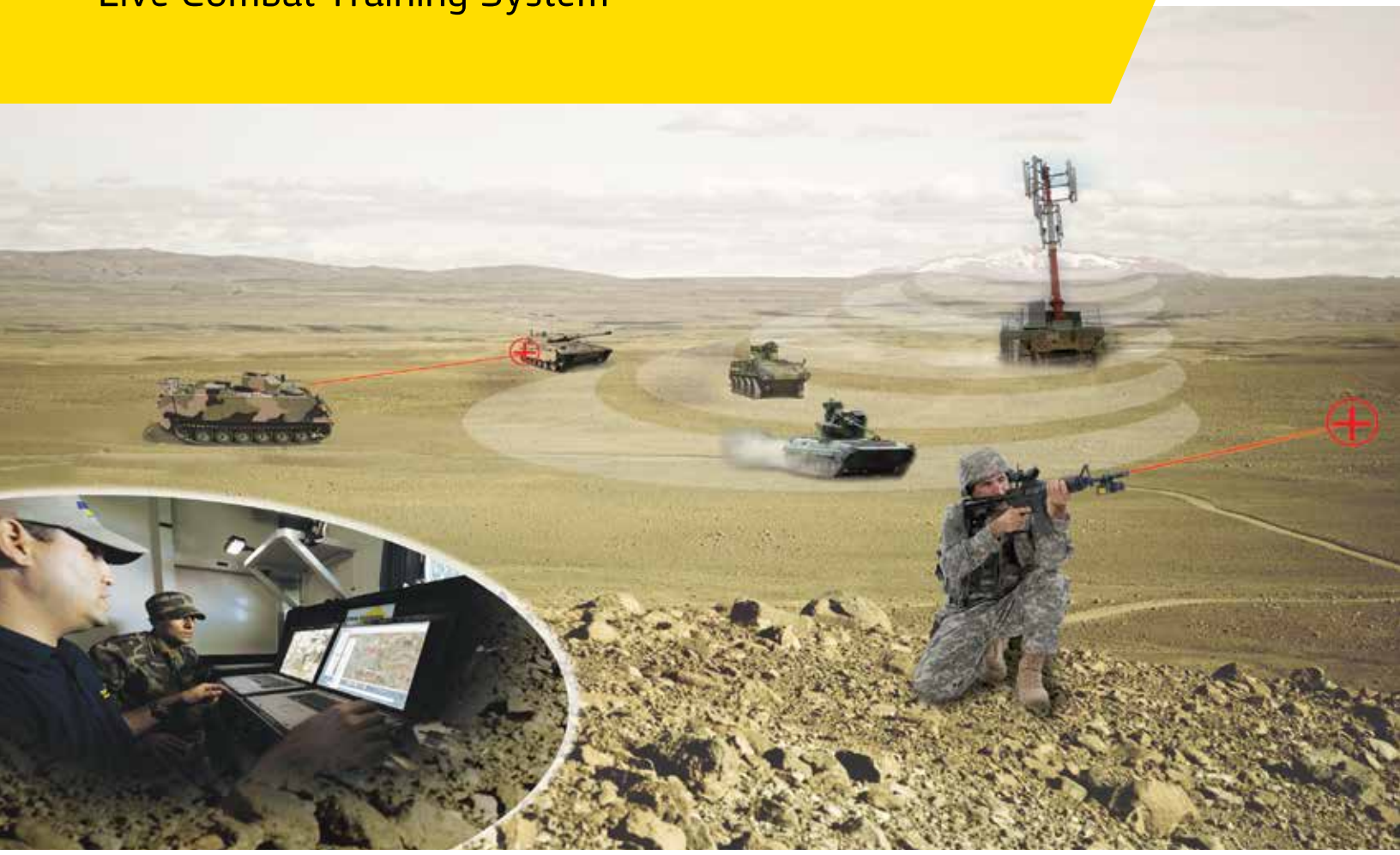
Land Forces Training Systems

Live Combat Training System



Elbit Systems™

Live Combat Training System (LCTS)

Elbit Systems' Live Combat Training System (LCTS) provides a comprehensive solution for joint tactical force-on-force live training. LCTS offers a realistic, unified, live training environment, fully independent and easily deployable. The system enables efficient training in various terrains - including urban areas - without the need for any on-site installation.
The fully integrated training system combines laser suites for dismounted infantry and armored vehicles, independent broadband communication and control center capabilities.

Laser Emitter

Audio & Video

Computer

Sensors

User interface

The utmost in realistic battlefield training

With true-to-life battlefield conditions, LCTS provides a high-fidelity replication of weapons and tactical engagements. Utilizing a unique combination of innovative technologies and advanced software, LCTS delivers an authentic arena environment.

System Components

Control Center

- Advanced management and monitoring tools
- 2D and 3D display of the combat training area
- Wide range of simulated weapons, such as mortars, artillery and mines, as well as nuclear, biological and chemical events
- Scalable for up to 10,000 concurrent trainees, based on COTS hardware
- Interoperability with C4I systems and tactical communications

Communications Infrastructure

- Communications system for data, voice and video; supports any IP protocol
- Single piece of equipment for all player types and controllers
- Remote software and firmware updates
- Secure end-to-end data transfer

Player Unit Training Kit

- Advanced player unit computer
- Cutting-edge laser sensors
- Lightweight, Class I eye-safe multi-purpose laser emitter
- Audio and video interfaces
- Component connectivity via wireless PAN

Vehicle Unit Training Kit

- Advanced vehicle unit computer
- Independent wireless sensors, with a 360º range
- Ballistic laser emitter

Urban Training

- Complete solution for urban training without the need for complex on-site installation
- Automatic tracking of trainee position in urban areas when GPS is not available

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Technical Information

LCTS is a live training system providing true-to-life battlefield conditions and a high-fidelity replication of weapons and tactical engagements. Designed to provide the utmost in realistic battlefield training, the system combines innovative technologies and software resulting in an authentic arena environment.

Major Advantages

- Lightweight eye-safe wireless laser emitters “one emitter approach” and sensors, with minimize interface with training and weapon systems
- Common components and interoperability throughout dismounted and mounted systems
- Complete solution for urban training using highly accurate system for soldiers tracking positioning
- Accommodates any training areas and number of trainees
- Cutting edge mobile communication providing data audio and video

Key Features

- Mobile and stationary control center provides realistic simulation of both direct and indirect weapon effects, monitoring and analysis of training exercises
- Weapon effects simulation(WES) utilizes dry or blank shooting; adaptable to any weapon or platform
- Single laser emitter uses automated software controlled adjustable range (A-SCAR©) mechanism
- Deployable communication system suitable for any area size and any number of trainees
- Umpires acting as observers, controllers or mentors

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